

# ENGINEERING CHANGE NOTICE

## DART AEROSPACE LTD

MRP

Date: 17.09.29	Job No.: RD17-794-03	ADR Yes/No: N	ADR Date:	ECN #: 17- 687
Product No.: D350-794		Created By: WK	Approved By:	
Product Name: Auxiliary Fuel Tank		Checked By: DS		

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)	Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	Y	JLM		DQA / QA Coord.	Y	PS / ED	
Production Planning Man. / Production Planner	Y	ED / MP		QC Coordinator	Y	PD	
Supply Chain Director / Purchasing Manager	Y	RA / CL	18-10-17	Customer Support	Y	SW / LM	
Production Engineering Coord.	Y	DD		Customer Technical Support	Y	MB / ML	
Production Engineering Coord.	N	DL		Marketing	N	WR	
Customer Order Processing	N	SL		Prod. Man. Solution Provider	Y	HM	

Reason for Change:  
Design improvement

Documents Affected:  
D4000 Rev. E, D4009 Rev. B, D4022 Rev. D, D4062 Rev. F, DSC-D4290 Rev C, D4464 Rev. I, D5473 Rev. A, D5540 Rev. A, D5558 Rev. A

IF APPLICABLE: NCR: PAR: X CAR: X CIR: URF: PAPERWORK UPDATE ☐ PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☒

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	N		to be updated after testing	
7	Update Document Record (DR)	N			
8	Update Product Compatibility Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	Y	KJ		17.10.06
12	Update Product Specification Files (Bluefiles)	N			
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		17.10.06
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	Y	KJ		
17	Update / Verify Airworthiness Release Certificate Database	Y	KJ	TBD FOR NEW PARTS	
18	Create / Update Change Record Form / Item Card Database	N			
19	Create / Update Packaging Process Plan (PPP)	N			
20	Red Decals required on Packaging Process Plan (PPP)?	N			
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	N			
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	Y	KJ		
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

Description / Action:  
- release to purchase and manufacture parts for testing  
- parts made to DSC-D4290 Rev C, D4464 Rev. I, D5473 Rev. A, D5558 Rev. A cannot be released to customers until updated drawings, IIN and ICA approved by TCCA  
these updates address CAR17-165, PAR17-594, PAR16-548, PAR15-459

ECN Verified & Complete: Date:



**From:** Wade Kennedy  
**Sent:** Friday, September 29, 2017 12:30 PM  
**To:** Robert Aboud <[raboud@dartaero.com](mailto:raboud@dartaero.com)>  
**Subject:** D350-794 Aux Fuel Tank

Hello Robert,

Per our conversation

In order to complete the flight testing for the D350-794 aux fuel tank, Dart needs to supply a retrofit kit to Mustang Helicopters. Part of the agreement with Mustang is that Dart will preassemble a wiring harness (not part of the standard kit) for installation on the test aircraft. I spoke with Harvey, we will get Eagle to assemble the wiring harness here in Calgary so we will need the parts sent here as soon as possible.

D350-794-501 UPGRADE KIT:

D5473-041 FUEL GAUGE ASSEMBLY (1)

- D5473-1 FUEL GAUGE (1) need dwg ~~1~~ 2
- MS28042-1A CLAMP (1) 5 in stock

• D5473-061 FUEL SENDER ASSEMBLY (1)

- D4025-3 GASKET (1) send quote
- D4290-19 WIRE SPLICE (3) alt p/n: M81824/1-2 19 stock
- D4290-35 CRIMP PIN (3) alt p/n: 143-219 28 stock
- D4290-41 PLUG HOUSING (1) need dwg x 5
- D5473-3 FUEL SENDER (1) need dwg ~~1~~ 2
- D5473-7 DIVIDE MODULE (1) need dwg x 2

D4290-31 CRIMP SOCKET (1) alt p/n: 143-217 618 stock

D4290-39 RECEPTACLE HOUSING (3) need dwg x 5

D4290-47 CONNECTOR BACKSHELL (1) need dwg x 2

D4290-55 CONNECTOR (1) need dwg x 2

D5558-1 BEZEL ADAPTER (1) need dwg x 2

D5558-3 INSTRUMENT CLAMP (1) need dwg x 2

MS35214-31 SCREW (2) send quote

MS21044N06 NUT (2) 201 stock

Thank you  
Wade

## Robert Aboud

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**From:** Wade Kennedy  
**Sent:** Thursday, October 12, 2017 10:06 AM  
**To:** Harvey Siemens; Ryan Williamson; Robert Aboud; David Shepherd  
**Subject:** FW: D350-794 Aux Fuel Tank

Hello Rob,

Just a heads up, the testing is scheduled for Nov. 7<sup>th</sup> but we will need these items well before that (preferably before Oct 24<sup>th</sup>, I know that's unlikely but I can dream) in order to assemble the wiring harness and do the calibration on the gauge.

Thank you

Wade

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**From:** Robert Aboud  
**Sent:** October 11, 2017 2:18 PM  
**To:** Wade Kennedy <[wkennedy@dartaero.com](mailto:wkennedy@dartaero.com)>; Chantal Lavoie <[clavoie@dartaero.com](mailto:clavoie@dartaero.com)>  
**Cc:** Diane Baker <[dbaker@dartaero.com](mailto:dbaker@dartaero.com)>  
**Subject:** RE: D350-794 Aux Fuel Tank

Wade,

Haven't been ordered due to Plex, but will follow up with team

### Rob Aboud

*Director of Supply Chain*

**DART AEROSPACE**

**T** 1-613-632-5200 Ext.244

**M** 1-514-979-6138

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**From:** Wade Kennedy  
**Sent:** Wednesday, October 11, 2017 4:16 PM  
**To:** Robert Aboud <[raboud@dartaero.com](mailto:raboud@dartaero.com)>; Chantal Lavoie <[clavoie@dartaero.com](mailto:clavoie@dartaero.com)>  
**Cc:** Diane Baker <[dbaker@dartaero.com](mailto:dbaker@dartaero.com)>  
**Subject:** RE: D350-794 Aux Fuel Tank

Hello Rob,

Has there been any movement with these parts? I believe the ECN was released, just need to be able to order parts. I will require D5473-1/-3/-7 fairly soon as they need to be calibrated prior to testing.

Thank you

Wade

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**From:** Wade Kennedy  
**Sent:** September 29, 2017 1:07 PM  
**To:** Robert Aboud <[raboud@dartaero.com](mailto:raboud@dartaero.com)>; Chantal Lavoie <[clavoie@dartaero.com](mailto:clavoie@dartaero.com)>

Cc: Diane Baker <[dbaker@dartaero.com](mailto:dbaker@dartaero.com)>

**Subject:** RE: D350-794 Aux Fuel Tank

Hi Robert,

The drawings are approved but not yet released, I will have the ECN done shortly  
Wade

**From:** Robert Aboud

**Sent:** September 29, 2017 12:22 PM

**To:** Chantal Lavoie <[clavoie@dartaero.com](mailto:clavoie@dartaero.com)>; Wade Kennedy <[wkennedy@dartaero.com](mailto:wkennedy@dartaero.com)>

**Cc:** Diane Baker <[dbaker@dartaero.com](mailto:dbaker@dartaero.com)>

**Subject:** RE: D350-794 Aux Fuel Tank

Wade are these drawings all released?

### Rob Aboud

*Director of Supply Chain*

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**From:** Chantal Lavoie

**Sent:** Friday, September 29, 2017 2:20 PM

**To:** Robert Aboud <[raboud@dartaero.com](mailto:raboud@dartaero.com)>; Wade Kennedy <[wkennedy@dartaero.com](mailto:wkennedy@dartaero.com)>

**Cc:** Diane Baker <[dbaker@dartaero.com](mailto:dbaker@dartaero.com)>

**Subject:** RE: D350-794 Aux Fuel Tank

Hi Robert,

Please see below for item that show in stock, for the rest we will need the dwg file to send out for quotes.

Thanks

Chantal

**From:** Robert Aboud

**Sent:** Friday, September 29, 2017 12:37 PM

**To:** Chantal Lavoie <[clavoie@dartaero.com](mailto:clavoie@dartaero.com)>; Diane Baker <[dbaker@dartaero.com](mailto:dbaker@dartaero.com)>

**Subject:** FW: D350-794 Aux Fuel Tank

Hello Procurement team!

Wade Kennedy needs us to purchase the items below and send to Calgary.

Please do the analysis and let me know what kind of leadtimes we are looking at.

Let me know if you run into sourcing issues.

Thanks!

### Rob Aboud

*Director of Supply Chain*

**DART AEROSPACE**